



Dart Hawkesbury
1270 Aberdeen St Hawkesbury, ON K6A 1K7 Canada
Tel (613) 632-5200

Purchasing Receipts

PO No	Supplier	Line Item No	Rel No	Terms	Purchased Item	Description	For Part No	Project	Equipment ID	Order Qty	Due Date	Received Quantity	Accounting Job No	Serial No	Status	Receive Date	Price/Unit	Agri Day
P0038946	ACI001-VC	1	1	Net 30	M1018RD.375	1010-1025 Round Bar .375 : MATERIAL: AISI 1018-1025 ROUND BAR M1010S20GA AS PER MIL-S-7097 OR ASTM A108				12	2/6/2018	12		S039966	Stock	2/7/2018	\$ 0.50 / ft	
		2			MT-4140QT-R1.250	MT-4140 QT-R1.250				16		16		S039966	Stock	2/7/2018	\$ 7.09 / ft	
		5			MT-1144-R1.250	1144 Steel Proof Round Bar 1.250"				20		22		S039967	Stock	2/7/2018	\$ 7.71 / ft	
		6			MT-1144-R1.375	1144 Steel Proof Round Bar 1.375"				16		16		S039968	Stock	2/7/2018	\$ 8.68 / ft	
		7			M6061T660.375X01.250	6061-T6 Bar .375 X 1.25 : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft				20		20		S039969	Stock	2/7/2018	\$ 1.85 / ft	
		8			M6061T660.563	6061-T6 Round Bar .563 : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM ROUND BAR AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117 4128/4115/4116 OR QQ-AA-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B221 OR ASTM B221 receive ft				36		36		S039970	Stock	2/7/2018	\$ 1.09 / ft	
		9			MT-4140QT-R1.500	AISI 4140 Quenched & Tempered Steel Round Bar 1.500" Dia.				20		23		S039971	Stock	2/7/2018	\$ 9.01 / ft	
Total:										140		145						

Plex 2/7/2018 9:29 AM Dart.Dubois.Pascal

**ACIER OUELLETTE INC.**

935, Boul. du Havre . .
Salaberry de Valleyfield (Québec) J6S 5L1
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Invoice

FC00074727

Sold to

DART AEROSPACE LTD

1270, ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Shipped to

, Ontario,

Att : Facturation

Customer N°

CLI0001056

Date

2018/02/07

Your order N°

PO038946

Processed by

France

Salesman

STEPHANIE

Carrier

OUELLETTE VALLEYFIELD

Credit Term

Net 30 Days

Order N°

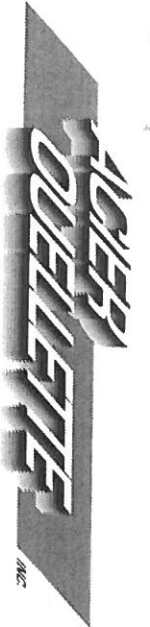
CO00072715

Page

1

Product N° and description	Weight	Qty	U/M	Qty	U/M	Price	Pcs Nb	Price	Amount
ROUND CR 3/8 1018 RANDOM RCR-38-V 5337 1 X 12' R/L HEAT: 41776GM	4.51	12.00	PI_\$CLB	12.00	PI	0.50	0.00	0.000	5.95
ROUND 4140 HEAT TREAT 1 1/4 RANDOM R4140-114H-V 4897 1 X 16' DC HEAT: NF16202066	66.75	16.00	PI_\$CLB	16.00	PI	7.09	0.00	0.000	113.45
ROUND STRESSPROOF 1 1/4 RANDOM RST-114-V 5790 1 X 20' R/L HEAT: 015180	83.40	20.00	PI_\$CLB	20.00	PI	7.71	0.00	0.000	154.25
ROUND STRESSPROOF 1 3/8 RANDOM RST-138-V 5801 1 X 12' DC 1 X 4' DC HEAT: J4013Y	80.80	16.00	PI_\$CLB	16.00	PI	8.68	0.00	0.000	138.94
FLAT ALU 3/8 X 1 1/4 6061-T6 RANDOM FAL-38114-V 2609 1 X 20' HEAT: 201701926	11.02	20.00	PI_\$CLB	20.00	PI	1.85	0.00	0.000	37.02
ROUND ALU 9/16 6061-T6 RANDOM RAL-916-V 5180 3 X 12' HEAT: 201714863	10.54	36.00	PI_\$CLB	36.00	PI	1.09	0.00	0.000	39.23
ROUND 4140 HEAT TREAT 1 1/2 RANDOM R4140-112H-V 4893 1 X 23'4" HEAT: 75069193	140.16	23.33	PI_\$CLB	23.33	PI	9.01	0.00	0.000	210.18
SURCHARGE ENERGETIQUE FRAIS_ENERGETIQU	0.00		\$						3.95

	Subtotal	702.97
TPS/GST : 822 670 774 RT0001		
TVQ/GST : 122 127 8182 Y00001	HST	91.39
	Total (\$CAD)	794.36
	Solde (\$CAD)	794.36

**ACIER OUELLETTE INC.**

935, Boul. du Hâvre
Salaberry de Valleyfield (Québec) J6S 5L1
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

DELIVERY - CLIENT

CO00072715

Customer N°

CL10001056

Date

2018/02/05

Delivery date

2018/02/06

Your order N°

PO038946

Processed by

Stephanie Dignard

Salesman

Carrier

OUELLETTE VALLEYFIELD

Credit Terme

Net 30 Days

Billed to

DART AEROSPACE LTD

1270, ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7**Shipped to**

, Ontario,

Att : CHANTAL LAVOIE Tél.: 613-632-5200

Instruction F-M

Delivery Route 5

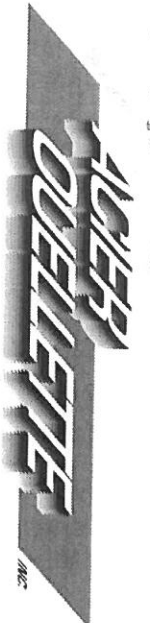
Page

1

Product Description	Weight	Qty	U/M	PCS NB			Internal Use Only				
				CMD	EXP	B/O	IN	I	S	C	OUT
1 ROUND CR 3/8 1018 RANDOM RCR-38-V 5337 1 X 12' R/L	4.51	12.00	PL \$CLB		17 121"		✓ 12				
2 ROUND 4140 HEAT TREAT 1 1/4 RANDOM R4140-114H-V 4897 1 X 20' R/L	83.44	20.00	PL \$CLB		17 16	4'	✓ 16				
3 ROUND STRESSPROOF 1 1/4 RANDOM RST-114-V 5790 1 X 20' R/L	83.40	20.00	PL \$CLB		17 22		22				
4 ROUND STRESSPROOF 1 3/8 RANDOM RST-138-V 5801 1 X 20' R/L	101.00	20.00	PL \$CLB		17 12 124	4'	12 + 16 4				

NIR : R-109516-6

Next Page...



ACIER OUELLETTE INC.

935, Boul. du Hêtre
Salaberry de Valleyfield (Québec) J6S 5L1
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

DELIVERY - CLIENT

CO00072715

Billed to

DART AEROSPACE LTD

1270, ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Shipped to

, Ontario,

Instruction F-M

Att : CHANTAL LAVOIE Tél.: 613-632-5200
Delivery Route 5

Page 2

2

Customer N°

CL10001056

Date

2018/02/05

Delivery date

2018/02/06

Your order N°

PO038946

Processed by

Stephanie Dignard

Salesman

Carrier

OUELLETTE VALLEYFIELD

Credit Terme

Net 30 Days

Product Description	Weight	Qty	U/M	PCS NB			Internal Use Only				
				CMD	EXP	B/O	IN	I	S	C	OUT
5 FLAT ALU 3/8 X 1 1/4 6061-T6 RANDOM FAL-38114-V 2609	11.02	20.00	PL_\$CLB		17 20		20				
6 ROUND ALU 9/16 6061-T6 RANDOM RAL-916-V 5180	10.55	36.00	PL_\$CLB		34 12		36				
3 X 12'											
7 ROUND 4140 HEAT TREAT 1 1/2 RANDOM R4140-112H-V 4893	120.16	20.00	PL_\$CLB		14 23 1/4"		23				
1 X 20'											

Total Weight (Lbs) : 414.08

NIR : R-109516-6

Total (\$CAD)

Conditions :
All sold and delivered materials remain the property of "Acier Ouellette Inc." until payment is made in full, complete and cashed. All lost materials are at the buyer's expense. The warranty offered by "Acier Ouellette Inc." is the same as offered and honored by the manufacturer and his warranty is transferred by "Acier Ouellette Inc." to the client. The buyer hereby accepts to respect the following conditions: Net 30 days from billing date and the buyer accepts to pay administration charges of 2% per month (24% per annum) on all past due amounts over 30 days. Any default in respect with this contract will lead to payment by acceleration and permits to the seller, at his choice to claim for the balance due or the repossession of the goods sold. All claims must be made within five (5) days with this document enclosed. Any merchandise that has been damaged, cut or modified cannot be returned. All goods returned must be with our authorization and are subject to a 25% restocking charge.

Prepared By :

Verified By :

Delivered By :

Time

Customer's Signature

Date

Total (\$CAD)



ACIER OUELLETTE INC.

Order - Sales

Copy

CO00072715

935, Boul. du Hâvre
Salaberry de Valleyfield (Québec) J6S 5L1
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Customer N°

CU10001056

Date

2018/02/05

Delivery date

2018/02/06

Your order N°

PO038946

Processed by

Stéphanie Dignard

Salesman

Carrier

OUELLETTE VALLEYFIELD

Credit Terme

Net 30 Days

Billed to

DART AEROSPACE LTD

1270, ABERDEEN ST.
HAMMERSBURY, Ontario, K6A 1K7

Shipped to

, Ontario,

Alt : CHANTAL LAVOIE Tél.: 613-632-5200

Delivery Route 5

Page

1

Product Description		Weight	Qty	U/M	PCS NB			Internal Use Only						
					CMD	EXP	B/O	IN	I	S	C	OUT		
1	ROUND CR 3/8 1018 RANDOM RCR-38-V 5337 1 X 12' R/L HEAT: 41776GM	4.51	12.00	PL_\$CLB	0.00									
2	ROUND 4140 HEAT TREAT 1 1/4 RANDOM R4140-114H-V 4897 1 X 16' DC HEAT: NF16202066	66.75	16.00	PL_\$CLB	0.00									
3	ROUND STRESSPROOF 1 1/4 RANDOM RST-114-V 5790 1 X 20' R/L HEAT: —	83.40	20.00	PL_\$CLB	0.00									
4	ROUND STRESSPROOF 1 3/8 RANDOM RST-138-V 5801 1 X 12' DC 1 X 4' DC HEAT: —	80.80	16.00	PL_\$CLB	0.00									

MIR : R-109516-6

Next Page...



ACIER OUELLETTE INC.
935, Boul. du Havre
Salaberry de Valleyfield (Québec) J6S 5L1
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Order - Sales

Copy

CO00072715

Customer N° CL0001056
Date 2018/02/05

Delivery date 2018/02/06

Your order N° PO038946

Processed by Stephanie Dignard

Salesman

Carrier

OUELLETTE VALLEYFIELD

Credit Terme

Net 30 Days

Billed to

DART AEROSPACE LTD
1270, ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Shipped to

, Ontario,

Att : CHANTAL LAVOIE Tél.: 613-632-5200

Delivery Route 5

Page 2

Product Description				Weight	Qty	U/M	PCS NB			Internal Use Only					
							CMD	EXP	B/O	IN	I	S	C	OUT	
5 FLAT ALU 3/8 X 1 1/4 6061-T6 RANDOM FAL-38114-V 2609							11.02	20.00	PL \$CL8	0.00					
1 X 20' HEAT 201701926															
6 ROUND ALU 9/16 6061-T6 RANDOM RAL-916-V 5180							10.55	36.00	PL \$CL8	0.00					
3 X 12' HEAT 201714863															
7 ROUND 4140 HEAT TREAT 1 1/2 RANDOM R4140-112H-V 4893							120.16	20.00	PL \$CL8	0.00					
1 X 20'															
SURCHARGE ENERGETIQUE															
FRAIS_ENERGETIQUE							\$								

Total Weight (LBS) : 377.19

MIR : R-109516-6

Conditions :
All sold and delivered materials remain the property of "Acier Ouellette Inc." until payment is made in full, complete and undisturbed. All materials are at the buyer's expense. The warranty offered by "Acier Ouellette Inc." is the same as offered and provided by its manufacturer and the warranty is transferred by "Acier Ouellette Inc." to the client. The buyer hereby accepts to respect the following conditions: Not 30 days from billing date and the buyer accepts to pay administration charges of 25% per month (25% per annum) or 30 past due amounts over 30 days. Any delay in respect with this contract will lead to payment by accelerated and 50% in the seller, at his choice to claim for the balance due or the repossession of the goods sold. All claims must be made within 15 days with this document enclosed. Any merchandise that has been damaged, cut or modified cannot be returned. All goods returned must be with our authorization and are subject to a 25% recovery charge.

Prepared By : Verified By :

Delivered By : Time

Customer's Signature

Y M D

Total (\$CAD)

Deposit 760.46
Balance 760.46

#5337 RCR-38 ✓

TNA-2147

49801



ARANA Y LUPARDO, 2
48490 UGAO-MIRAVALLS/VIZCAYA (SPAIN)
Tlfo.: 946480211
Fax: 946480128
Email: calprader@calibradospradera.es
www.calibradospradera.es

CERTIFICADO DE CALIDAD/QUALITY REPORT

De acuerdo a / Made according to:

EN 10204/DIN 50049

3.1

N° CERTIFICADO / CERTIFICATE NR.: 49709

ALBARAN 49709
Delivery Note No.

CLIENTE LES ACIERS TRANSDEC (1997) LTÉE
CUSTOMER

Norma : EN 10277

Productos Calibrados de acero. Condiciones técnicas de suministro.

Norm :

Bright steel products. Technical delivery conditions.

PRODUCTO SOLICITADO / PRODUCT ACCORDING ASTM A108

ITEM	DESCRIPTION	THICKNESS (mm)	YIELD STRENGTH (MPa)	TENSILE STRENGTH (MPa)	ELONGATION (%)
MDI-47094	12L14 RED. ESTIRADO 63,50 (2 1/2")	1.094	-0.016	917091	63,50
PAR-48569	1018 RED. ESTIRADO 6,35 (1/4")	978	-0.051	917092	6,35
PAJ-48393	1018 CUA. ESTIRADO 25,40 (1")	1.036	-0.130	916780	25,40
PAJ-48736	1018 CUA. ESTIRADO 9,53 (3/8")	788	-0.090	915990	9,53
PAJ-48736	1018 CUA. ESTIRADO 12,70 (1/2")	982	-0.110	916617	12,70
OU-47949	1018 RED. ESTIRADO 9,53 (3/8")	2.072	-0.051	141111	9,53
VI-48475	1018 RED. ESTIRADO 9,53 (3/8")	2.130	-0.051	141131	9,53
VI-48475	1018 RED. ESTIRADO 15,88 (5/8")	1.020	-0.051	916940	15,88
VI-48475	1018 RED. ESTIRADO 19,05 (3/4")	996	-0.051	916887	19,05
VI-48475	1018 CUA. ESTIRADO 9,53 (3/8")	746	-0.090	915990	9,53
VI-48475	1018 CUA. ESTIRADO 9,53 (3/8")	650	-0.090	916803	9,53
VI-48475	1018 CUA. ESTIRADO 12,70 (1/2")	992	-0.110	916617	12,70
VI-48475	1018 CUA. ESTIRADO 19,05 (3/4")	1.002	-0.130	915992	19,05
VI-48475	1018 CUA. ESTIRADO 22,23 (7/8")	890	-0.130	915746	22,23
VI-48475	1018 CUA. ESTIRADO 25,40 (1")	1.034	-0.130	916780	25,40
VI-48475	1018 CUA. ESTIRADO 44,45 (1 3/4")	992	-0.160	916031	44,45
PAR-48143	1018 CUA. ESTIRADO 25,40 (1")	1.194	-0.190	916736	25,40
PAR-48143	1018 CUA. ESTIRADO 30,80 (2")	980	-0.130	916780	25,40
PAR-48143	12L14 RED. ESTIRADO 38,10 (1 1/2")	1.194	-0.190	916736	30,80
MOP-48145	1018 CUA. ESTIRADO 12,70 (1/2")	1.020	-0.051	916602	38,10
		990	-0.110	916617	12,70

Composición química de la coquilla / Chemical Analysis of Heat

MEDIDA	OF	COLADA	% C	% Cr	% Cu	% Mn	% Mo	% N	% Ni	% P	% S	% Si
63,50	0,00	917091	42050 AQ	0,080	0,035	0,011	1,110	0,007	0,000	0,022	0,063	0,310
6,35	0,00	917092	41480 OM	0,160	0,000	0,000	0,730	0,000	0,000	0,000	0,021	0,000
25,40	0,00	916780	41544 C	0,160	0,000	0,000	0,720	0,000	0,000	0,000	0,016	0,000
9,53	0,00	915990	40828 G	0,150	0,000	0,198	0,760	0,000	0,000	0,000	0,016	0,000
12,70	0,00	916617	41450	0,150	0,000	0,000	0,760	0,000	0,000	0,000	0,016	0,000
9,53	0,00	141111	41776 GM	0,160	0,000	0,290	0,750	0,000	0,000	0,000	0,015	0,000
9,53	0,00	141131	41776 GM	0,160	0,000	0,290	0,750	0,000	0,000	0,000	0,021	0,000
15,88	0,00	916940	41731 AA	0,153	0,000	0,015	0,863	0,000	0,004	0,000	0,014	0,000
19,05	0,00	916887	41645 G	0,160	0,000	0,000	0,640	0,000	0,000	0,000	0,013	0,000
9,53	0,00	915990	40828 G	0,150	0,000	0,198	0,760	0,000	0,000	0,000	0,016	0,000
		916803	40828 G	0,150	0,000	0,198	0,760	0,000	0,000	0,000	0,016	0,000
12,70	0,00	916617	41450	0,150	0,000	0,000	0,760	0,000	0,000	0,000	0,016	0,000
19,05	0,00	915992	40080 S	0,165	0,000	0,000	0,780	0,000	0,000	0,000	0,015	0,000
22,23	0,00	915746	40587 C	0,150	0,000	0,000	0,600	0,000	0,000	0,000	0,017	0,000
25,40	0,00	916780	41544 C	0,160	0,000	0,000	0,720	0,000	0,000	0,000	0,016	0,000
44,45	0,00	916031	40716	0,200	0,000	0,000	0,800	0,000	0,000	0,000	0,016	0,000
50,80	0,00	916736	41336 C	0,150	0,000	0,000	0,710	0,000	0,000	0,000	0,012	0,000



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER **PO038946**

Supplier: ACI001-VC
Acier Ouellette Inc.
935 Boul. Du Havre
Valleyfield
QC
J6S 5L1 Canada
Phone: 800 667 4248
Fax: 450 377 5696

PO No: PO038946

PO Date: 2/5/18

Due Date: 2/9/18

Purchase Order
Revision:

Revision Date:

Ship-To Contact: Lavoie, Chantal
clavoie@dartaero.com

E-MAILED
FEB 05 2018

Ship To: 1270 Aberdeen Street
Hawkesbury
ON
K6A 1K7 Canada
Phone: 613-632-5200

Via: Ground

Pymt Terms: Net 30

Freight Terms:

Special Comments: quotation sou0083186

Items

Line Item	Part	Supplier Part No	Description	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
1	M1018R0.375		1010-1025 Round Bar .375 : MATERIAL: AISI 1018-1025 ROUND BAR M1010S20GA AS PER MIL-S-7097 OR ASTM A108	Firmed	2/9/18	12 ft	0 ft 12	12 ft	\$0.4958333/ft	\$5.95
2	MT-4140QT-R1.250		MT-4140 QT-R1.250	Firmed	2/9/18	20 ft	0 ft 16	20 ft	\$7.0905/ft	\$141.81
3	MT-4140QT-R3.500		AISI 4140 Quenched & Tempered Steel Round Bar 3.500" Dia.	Firmed	2/9/18	12 ft	0 ft	12 ft	\$50.818333/ft	\$609.82
4	MT-4140QT-R0.500		AISI 4140 Quenched & Tempered Steel Round Bar 0.500" Dia.	Firmed	2/9/18	20 ft	0 ft	20 ft	\$1.4425/ft	\$28.85
5	MT-1144-R1.250		1144 Steel Proof Round Bar 1.250"	Firmed	2/9/18	20 ft	0 ft 22	20 ft	\$7.7125/ft	\$154.25
6	MT-1144-R1.375		1144 Steel Proof Round Bar 1.375"	Firmed	2/9/18	20 ft	0 ft 16	20 ft	\$8.6835/ft	\$173.67
7	M6061T6B0.375X01.250		6061-T6 Bar .375 X 1.25 : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft	Firmed	2/9/18	20 ft	0 ft 20	20 ft	\$1.851/ft	\$37.02

FEB 07 2018

DAS
11
9-89

PURCHASE ORDER

Items										
Line Item	Part	Supplier Part No	Description	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
8	M6061T6R0.563		6061-T6 Round Bar .563 : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM ROUND BAR AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117 4128/4115/4116 OR QQ-AA-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B221 OR ASTM B221 receive ft	Firmed	2/9/18	36 ft	0 ft 36	36 ft	\$1.0897222/ft	\$39.23
9	MT-4140QT-R1.500		AISI 4140 Quenched & Tempered Steel Round Bar 1.500" Dia.	Firmed	2/9/18	20 ft	0 ft 23	20 ft	\$9.009/ft	\$180.18
									Grand Total: \$1,370.78	

Order Notes

Procurement Quality Clauses

- A005 right of entry
- A012 chemical and physical test report
- A016 personnel qualification
- A017 raw material identification (as applicable)
- A026 certification of material conformance
- A041 quality management system
- A042 dart notification by supplier
- A043 retention of quality documents

A048 counterfeit parts avoidance, detection, mitigation and disposition program

A049 supplier awareness

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

FEB 07 2018

DAS
11
9-80

Plex 2/5/18 9:01 AM dart.lavoie.chantal

**ACIER OUELLETTE INC.**

935, Boul. du H vre

Salaberry de Valleyfield (Qu bec) J6S 5L1

T l.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248

Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Quotation

SOU0083186

Billed to

DART AEROSPACE LTD

1270 , ABERDEEN ST.

HAWKESBURY, Ontario, K6A 1K7

Shipped to

, Ontario,

Att : CHANTAL LAVOIE T l.: 613-632-5200

Customer N 

CLI0001056

Date

2018/01/30

Revision N 

0

Prices valid until

2018/02/06

Your Order N **Processed by**

Stephanie Dignard

Salesman

STEPHANIE

Carrier

OUELLE SDV

Credit Terms

Net 30 Days

Page

1

Product N� and description	Weight	Qty	U/M	Qty	U/M	Price	Pcs Nb	Price	Amount
ROUND CR 3/16 1018 RANDOM RCR-316-V 5327 OFFER STEEL 1018 CR 1 X 12' R/L	1.13	12.00	PI_\$CLB	12.00	PI	0.12			1.44
ROUND CR 5/16 1018 RANDOM RCR-516-V 5348 OFFER STEEL 1018 CR 1 X 12' R/L	3.13	12.00	PI_\$CLB	12.00	PI	0.21			2.57
ROUND CR 3/8 1018 RANDOM RCR-38-V 5337 OFFER STEEL 1018 CR 1 X 12' R/L OK ✓	4.51	12.00	PI_\$CLB	12.00	PI	0.50			5.95
ROUND 4140 HEAT TREAT 1 1/4 RANDOM R4140-114H-V 4897 1 X 20' R/L ✓ OK	83.44	20.00	PI_\$CLB	20.00	PI	7.09			141.81
ROUND 4140 HEAT TREAT 3 1/2 RANDOM R4140-312H-V 4941 COUPE A LA SCIE SCIE 1 1 X 12' 2-3 DAYS OK ✓	406.68	12.00	PI_\$CLB	12.00	PI	50.82			609.82
ROUND CR 3/8 1018 RANDOM RCR-38-V 5337 1 X 12' R/L	4.51	12.00	PI_\$CLB	12.00	PI	0.50			5.95
ROUND CR 3 1018 RANDOM RCR-3-V 5338 1 X 12' COUPE A LA SCIE SCIE 1	288.36	12.00	PI_\$CLB	12.00	PI	31.71			380.49
		1.00	UN	1.00		5.00			5.00

Date :

Next Page...

**ACIER OUELLETTE INC.**

935, Boul. du Havre

Salaberry de Valleyfield (Québec) J6S 5L1

Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248

Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Quotation**SOU0083186****Billed to**

DART AEROSPACE LTD

1270, ABERDEEN ST.

HAWKESBURY, Ontario, K6A 1K7

Shipped to

, Ontario,

Att : CHANTAL LAVOIE Tél.: 613-632-5200

Customer N°

CLI0001056

Date

2018/01/30

Revision N°

0

Prices valid until

2018/02/06

Your Order N°**Processed by**

Stephanie Dignard

Salesman

STEPHANIE

Carrier

OUELLE SDV

Credit Terms

Net 30 Days

Page

2

Product N° and description	Weight	Qty	U/M	Qty	U/M	Price	Pcs Nb	Price	Amount
ROUND 4140 ANNEALED 1/2 RANDOM R4140-12A-V 4905 1 X 20' R/L 2-3 DAYS	13.36	20.00	PI_\$CLB	20.00	PI	1.44			28.85
ROUND CR 3/8 1018 RANDOM RCR-38-V 5337 OFFER STEEL 1018 CR 1 X 12' R/L	4.51	12.00	PI_\$CLB	12.00	PI	0.50			5.95
ROUND STRESSPROOF 1 1/4 RANDOM RST-114-V 5790 1 X 20' R/L STOCK	83.40	20.00	PI_\$CLB	20.00	PI	7.71			154.25
ROUND STRESSPROOF 1 3/8 RANDOM RST-138-V 5801 1 X 20' R/L STOCK	101.00	20.00	PI_\$CLB	20.00	PI	8.68			173.67
FLAT ALU 2 X 2 1/2 6061-T6 RANDOM NS FAL-2212-V 8770 2" X 2-1/4 NOT AVAILABLE, OFFER 2" X 2-1/2 1 X 12' 3-4 DAYS	70.49	12.00	PI_\$CLB	12.00	UN_\$UN	21.56			258.66
FLAT ALU 2 1/2 X 4 1/2 6061-T6 NS FAL-212412 9283 1 X 12' 3-4 DAYS	161.76	12.00	PI_\$CLB	12.00	PI	47.71			572.55
FLAT ALU 3/8 X 1 1/4 6061-T6 RANDOM FAL-38114-V 2609 1 X 20' STOCK	11.02	20.00	PI_\$CLB	20.00	PI	1.85			37.02
ROUND ALU 9/16 6061-T6 RANDOM RAL-916-V 5180 3 X 12' STOCK	10.55	36.00	PI_\$CLB	36.00	PI	1.09			39.23
ROUND 4140 HEAT TREAT 1 1/2 RANDOM R4140-112H-V 4893 1 X 20' STOCK	120.16	20.00	PI_\$CLB	20.00	PI	9.01			180.18

Date :

Next Page...

Date : _____ **Total (\$CAD)** **2 951.94**

Chantal Lavoie

From: Chantal Lavoie
Sent: Friday, February 02, 2018 1:49 PM
To: Chantal Lavoie
Subject: FW: quote

From: Chantal Lavoie
Sent: Monday, January 29, 2018 2:52 PM
To: 'Josianne Bourdon' <j.bourdon@acierouellette.com>
Subject: quote

Good afternoon Josianne,
Please advise price an delivery on mat'l.

~~4140 qt round bar 0.187" x 12 ft~~ ✓

4140 qt round bar 0.3125" x 12 ft

4140 qt round bar 0.375" x 12 ft ✓

~~4140 qt round bar 1.250" x 12 ft~~ ✓

~~4140 qt round bar 3.5" x 12 ft~~ ✓

~~1018 round bar 0.375" x 12 ft~~ ✓

1018 round bar 3.0125" x 12 ft ✓

4140n round bar 0.500" x 12 ft ✓

4140n round bar 0.375" x 12 ft ✓

~~1144 round bar 1.250" x 12 ft~~ ✓

~~1144 round bar 1.375" x 12 ft~~ ✓

~~6061-t6 bar 2" x 2.250" x 12 ft~~ ✓

~~6061-t6 bar 2.5" x 4.5" x 12 ft~~ ✓

~~6061-t6 bar 0.375" x 1.250" 12 ft~~ ✓

~~6061-t6 round bar 0.563" x 36 ft~~ ✓

~~4140H round bar 1.5" x 12ft~~ ✓

Thanks
Chantal



ARANA Y LUPARDO, 2
48490 UGAO-MIRAVALLS/VIZCAYA (SPAIN)
Tfno.: 946180211
Fax: 916450128
Email: calpradera@calibradospradera.es
www.calibradospradera.es

CERTIFICADO DE CALIDAD/QUALITY REPORT

De acuerdo a / Made according to:

EN 10204/DIN 50049

3.1

Nº CERTIFICADO / CERTIFICATE NR.: 49709

ALBARAN 49709

Delivery Note No.

CLIENTE: LBS ACIERS TRANSDEC (1997) LTÉE

CUSTOMER

Norma: EN 10277

Productos Calibrados de acero. Condiciones técnicas de suministro.

Norm:

Bright steel products. Technical delivery conditions.

				% C	% Cr	% Cu	% Mn	% Mo	% N	% Ni	% P	% Pb	% S	% Si
25,40	0,00	916780	41544 C	0,160	0,000	0,000	0,720	0,000	0,000	0,000	0,016	0,000	0,023	0,160
50,80	0,00	916736	41336 C	0,150	0,000	0,000	0,710	0,000	0,000	0,000	0,012	0,000	0,012	0,160
38,10	0,00	916602	41374 IS	0,070	0,000	0,000	1,120	0,000	0,000	0,000	0,043	0,240	0,295	0,010
12,70	0,00	916617	41450	0,150	0,000	0,000	0,769	0,000	0,000	0,000	0,015	0,000	0,009	0,194

Características mecánicas / Mechanical properties

MEDIDA Measurement	OF	COLADA Cast No.	Resistencia Tens. strength N/mm2	Lim. elástico Yield point 0,2% N/mm2	Alargamiento Elongation Lo=50 mm.	Dureza HB Hardness HB	Estricción %	
63,50		917091	42050 AG	504,00	456,70	15,66	185,00	0,00
6,35		917092	41480 GM	678,70	634,90	7,76	190,00	64,75
25,40		916780	41544 C	612,35	583,92	28,20	169,00	0,00
9,53		915990	40828 G	783,23	761,48	10,92	247,00	0,00
12,70		916617	41450	606,20	550,30	15,40	185,00	61,50
9,53		141111	41776 GM	592,90	531,30	18,50	172,00	66,45
9,53		141131	41776 GM	592,90	531,30	18,50	172,00	66,45
15,88		916940	41731 AA	627,37	594,90	19,38	180,00	58,58
19,05		916887	41645 G	647,30	621,09	15,64	195,00	56,94
9,53		915990	40828 G	783,23	761,48	10,92	247,00	0,00
		916803	40828 G	828,30	792,35	9,76	258,00	47,88
12,70		916617	41450	606,20	550,30	15,40	185,00	61,50
19,05		915992	40880 S	530,52	510,28	34,50	162,00	62,99
22,73		915746	40587 C	628,00	595,00	23,00	180,00	0,00
25,40		916780	41544 C	612,35	583,92	28,20	169,00	0,00
44,45		916031	40716	513,00	324,00	32,10	0,00	0,00
50,80		916736	41336 C	515,00	330,00	34,00	0,00	0,00
25,40		916780	41544 C	612,35	583,92	28,20	169,00	0,00
50,80		916736	41336 C	515,00	330,00	34,00	0,00	0,00
38,10		916602	41374 IS	0,00	0,00	0,00	151,00	0,00
12,70		916617	41450	606,20	550,30	15,40	185,00	61,50

Calidad Superficial

DESCRIPCIÓN Description	OF	Clase EN 10277-1
12L14 RED. ESTIRADO 63,50 (2 1/2")	917091	2
1018 RED. ESTIRADO 6,35 (1/4")	917092	2
1018 RED. ESTIRADO 9,53 (3/8")	141111	2
1018 RED. ESTIRADO 9,53 (3/8")	141131	2
1018 RED. ESTIRADO 15,88 (5/8")	916940	2
1018 RED. ESTIRADO 19,05 (3/4")	916887	2
12L14 RED. ESTIRADO 38,10 (1 1/2")	916602	2



ARANA Y LUPARDO, 2
48490 UCAO-MORAVALLLES/VIZCAYA (SPAIN)
Tfno.: 946480211
Fax: 946480128
Email: calpradera@calibradospradera.es
www.calibradospradera.es

CERTIFICADO DE CALIDAD/QUALITY REPORT

De acuerdo a / Made according to:

EN 10204/DIN 50049

3.1

Nº CERTIFICADO / CERTIFICATE NR.: 49789

ALBARAN 49789 Delivery Note No.	CLIENTE LES ACIERS TRANSUEC (1997) LTÉE CUSTOMER
------------------------------------	---

Norma : EN 10277

Productos Calentados de acero. Condiciones técnicas de suministro.

Norm :

Hot-rolled steel products. Technical delivery conditions.

Observaciones: BARRAS DE ACERO ESTIRADAS EN FRÍO SIN ALIAR

DEPARTAMENTO DE CALIDAD: Certifica que el mencionado producto cumple con las especificaciones del pedido.
QUALITY DEPARTMENT: Certify that the product fulfils the order specifications.

Fecha/Fdate: 20/11/2017

Firmado: Susana Fernández
Directora de Calidad



Sistema de
Calidad
ISO 9001:2008
Certificado
por
AENOR

#4897

R4140-114H-V

TRA-2012

49337 2P

CERTIFICATE OF TEST

CERTIFICAT D'ESSAIS

Page 01 of 02

 Certification Date
1-SEP-2017

 CUSTOMER ORDER NUMBER
NUMÉRO DE COMMANDE DU CLIENT

 Invoice Number
S697041

 AC00008879
PART NUMBER/NUMÉRO DE PIÈCE

 SOLD TO: ACIER OUELLETTE INC
VENDU À:

 SHIP TO:
EXPÉDIÉ À:

ACIER OUELLETTE INC.

 22 BOULEVARD J-F KENNEDY
ST JEROME QC J7Y 4B6

 22 BOULEVARD J F KENNEDY
SAINT JEROME QC J7Y 4

Description: 4140/42 HEAT TREATED GROUND AND POLISHED BAR

1-1/4 RD X 24 R/L

Line Total: 102 LB

HEAT: NF16202066

ITEM: 506068

Specifications:

ASTM A193 GR B7 15

ASTM A434 CL BC 12

ASME SA193 GR B7 15

ASTM A108 13

ASTM A29 15

CHEMICAL ANALYSIS

AL	C	CB	CR	CU	MN	MO	NI
0.025	0.41	0.003	0.96	0.14	0.90	0.17	0.10

P	S	SI	SN
0.011	0.019	0.25	0.0090

RCPT: R136834

COUNTRY OF ORIGIN : USA

MECHANICAL PROPERTIES

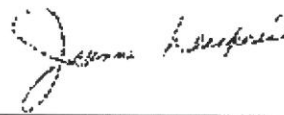
DESCRIPTION	YLD STR KSI	ULT TEN KSI	%ELONG IN 02 IN	%RED IN AREA	HARDNESS BHN
	122.5	140.0	18.5	55.5	305

The above data were transcribed from the manufacturer's Certificate of Test after verification for completeness and specification requirements of the information on the certificate. All test results remain on file subject to examination. / Les informations ci-haut-mentionnées sont transcrites du certificat d'essais du manufacturier après vérification de l'état complet des spécifications inscrites sur le certificat. We hereby certify that the material covered by this report will meet the applicable requirements described herein, including any specification forming a part of the description. / Par les présentes, nous certifions que le matériel couvert par ce rapport rencontre les spécifications décrites ci-haut.

The willful recording of false, fictitious, or fraudulent statements in connection with test results may be punishable as a felony under federal statutes. / Les informations fausses, fictives ou frauduleuses en rapport avec le résultat des essais sont punissables en vertu des lois fédérales.

Material did not come in contact with mercury while in our possession. / Par les présentes, nous certifions que le matériel couvert par ce rapport n'a rencontré les spécifications décrites ci-haut.

JOANNE DESPRES



 MANAGER QUALITY ASSURANCE
GÉRANT DE L'ASSURANCE QUALITÉ

CERTIFICATE OF TEST CERTIFICAT D'ESSAIS

Page 02 of 02

CUSTOMER ORDER NUMBER
NUMÉRO DE COMMANDE DU CLIENT

Certification Date
1-SEP-2017

AC00008879
PART NUMBER/NUMÉRO DE PIÈCE

Invoice Number
S697041

SOLD TO: ACIER OUELLETTE INC

VENDU À:

22 BOULEVARD J-F KENNEDY
ST JEROME QC J7Y 4B6

SHIP TO:
EXPÉDIÉ À:

ACIER OUELLETTE INC.

22 BOULEVARD J F KENNEDY
SAINT JEROME QC J7Y 4

Description: 4140/42 HEAT TREATED GROUND AND POLISHED BAR
1-1/4 RD X 24' R/L

HEAT: NF16202066

ITEM: 506068

Line Total: 102 LB

END-QUENCH HARDENABILITY (JOMINY - RC)

	1	2	3	4	5	6	7	8	9	10	12	14	16	18	20
H	57	57	57	57	57	57	56	54	53	51	48	47	44	44	43
J	24	28	32												
C	41	39	36												

IDEAL DIAMETER : 5.2 IN GRAIN SIZE : 8 -

MATERIAL IS FREE FROM MERCURY CONTAMINATION

NO WELD REPAIR PERFORMED ON MATERIAL

THERMAL TREATMENT: OK

AUSTENTIZE TEMP. 1600 F TIME (HR) 1 QUENCH MEDIUM OIL

TEMPER TEMP 1150 DEG F TIME (HR) 1

STRESS REL. TEMP. 1050 DEG F TIME (HR) 1.00

MACRO: OK

COMMENTS

surface finish 32 ra

red. ratio 32.4:1

melted & mfg in usa

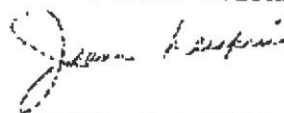
mill: nucor steel division

The above data were transcribed from the manufacturer's Certificate of Test after verification for completeness and specification requirements of the information on the certificate. All test results remain on file subject to examination. Les informations ci-haut mentionnées sont transcrits du certificat d'essais du fabricant après vérification de l'essai complet des spécifications inscrites sur le certificat. We hereby certify that the material covered by this report will meet the applicable requirements described herein, including any specification forming a part of the description. Par les présentes, nous certifions que le matériel couvert par ce rapport rencontre les spécifications décrites ci-haut.

The willful recording of false, fictitious, or fraudulent statements in connection with test results may be punishable as a felony under federal statutes. Les informations fausses, fictives ou frauduleuses en rapport avec le résultat des essais sont punissables en vertu des lois fédérales.

Material did not come in contact with mercury while in our possession. Par les présentes, nous certifions que le matériel couvert par ce rapport rencontre les spécifications décrites ci-haut.

JOANNE DESPRES



MANAGER QUALITY ASSURANCE
GÉRANT DE L'ASSURANCE QUALITÉ



Can Do.

Service Center Metals
SASO Quality Way
Prince George, VA 22875



CERTIFIED INSPECTION REPORT AND TEST RESULTS
FOR EXTRUDED PRODUCTS

COIL CODE NUMBER	INCH
284260	1

QUANTITY CERTIFIED	1,214 lbs	110 PCS	MANUFACT NUMBER 321855	REF NUMBER R80082	DATE OF EXPIRATION 2/7/2017
			FLOW NO C73927	ALLOY/TENSILE 6061-T6511	SUPPLIER D. Schroeder (Canada)
			CUSTOMER PART NUMBER V831232	DESCRIPTION SCRB .375x1.250	

CERTIFICATION
ASTM-B221-14 No Stress
DRAWING AMS-QQA-200/8 Rev-A

We hereby certify that the material covered by this report has been inspected in accordance with the most recent certification revision, and has been found to meet the applicable requirements described herein, including any specifications forming a part of the description, and that samples representative of the material met the composition limits and had the mechanical properties shown. This product is RoHS-2, REACH, and DEAS compliant.

Mechanical Properties

Test	Lot No.	Test Date	Ultimate Tensile Strength (ksi)	Yield Strength (ksi)	Percent Elongation
2	201701826	2/7/17	min 43.60 max 43.60	min 38.70 max 40.40	min 15.60 max 15.80

Chemical Composition for Aluminum Alloy 6061

Cast#	Lot No.	Alloy	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Al	Each	Others	Total	Melt Source
002K170122B	201701928	6061	0.61	0.22	0.18	0.07	0.85	0.07	0.01	0.02	97.98	0.05	0.15		United States of America

SCM products are melted and extruded in the USA.

Calvin J. Wiggins, Director of Quality & Technical Services

Print Date: 2/7/2017

Rev B/V16



Can Do.

Service Center Metals

5850 Quality Way
Prince George, VA 23875



CERTIFIED INSPECTION REPORT AND TEST RESULTS FOR EXTRUDED PRODUCTS

Quantity Certified 799 lbs 228 pcs

MANIFEST NUMBER
344426
CUSTOMER PO
V/M-643085
CUSTOMER PART NUMBER
RD0370

THE NUMBER
RD0370
ALLOY/TENSILE
6061-T6511
DESCRIPTION
Lightning Rod Tie 0.562 +.004/-0.003

DATE OF SHIPMENT
9/21/2017
SALES PERSON
D. Schroeder (Canada)
CERTIFICATION
ASTM-B221-14 No Stencil
SPECIFICATION
AMS-QQA-200/8 Rev-A

QUARTER ORDER NUMBER
929759
NEW
2

We hereby certify that the material covered by this report has been inspected in accordance with the most recent certification process, and has been found to meet the applicable requirements described herein, including any specifications forming a part of the description, and that samples representative of the material and the composition limits and that the mechanical properties shown. Items produced and certified as to aluminum products supplied by Service Center Metals (U.S. works) is no further of warranty. Neither mercury nor its compounds are used in the manufacture of aluminum products at our facility. Furthermore, aluminum products supplied by Service Center Metals have not to the best of our knowledge, contacted any source of mercury.

3CM is ISO 9001-2015 certified

This product is RoHS 2, REACH, and LFARS compliant

Mechanical Properties

Test	Lot No.	Test Date	Ultimate Tensile Strength (KSI)	Yield Strength (KSI)	Percent Elongation
1	201714863	9/21/17	min 47.80 max 47.80	min 44.40 max 44.40	min 15.80 max 15.80

Chemical Composition for Aluminum Alloy 6061

Cast #	Lot No.	Alloy	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Al	Others	Each	Total	Melt Source
101M170825B	201714863	6061	0.76	0.36	0.32	0.10	0.86	0.11	0.05	0.03	97.40	0.05	0.15		United States of America
103E170530A	201714863	6061	0.74	0.36	0.32	0.11	0.89	0.16	0.05	0.03	97.32	0.05	0.15		United States of America

CM products are melted and extruded in the USA

Calvin J. Wiggins, Director of Quality & Technical Services

Rev 7/2017

Print Date: 9/21/2017

P.O. 12100
49397

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: MT 1144-R1.375
 DATE: FEB 07 2018

PO BATCH NO: 038946/5039968

MATERIAL CERT REQD: yes
 QUANTITY RECEIVED: 16"
 QUANTITY INSPECTED: 16"
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 1.375
 THICKNESS RECEIVED: 1.375
 SHEET SIZE ORDERED: N/A
 SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <input checked="" type="radio"/> N	
CORRECT FINISH	<input checked="" type="radio"/> Y <input checked="" type="radio"/> N	
CORROSION	Y <input checked="" type="radio"/> N	
CORRECT GRAIN DIRECTION	<input checked="" type="radio"/> Y <input checked="" type="radio"/> N	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="radio"/> Y <input checked="" type="radio"/> N	<u>Astm A311</u>
CORRECT THICKNESS	<input checked="" type="radio"/> Y <input checked="" type="radio"/> N	
PHOTO REQUIRED	Y <input checked="" type="radio"/> N	
CORRECT REF # TO LINK CERT	<input checked="" type="radio"/> Y <input checked="" type="radio"/> N	<u>Heat # J4013Y</u>
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="radio"/> Y <input checked="" type="radio"/> N	
CORRECT M# ON THE MATERIAL	<input checked="" type="radio"/> Y <input checked="" type="radio"/> N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <input checked="" type="radio"/> N	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <input checked="" type="radio"/> N	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK.
 RECORD RESULTS BELOW

	HRC	HRB	DUR A	DUR E	WEE
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if req)
INSPECTED BY: <u>DAS 11</u> DATE: <u>9-89 FEB 07 2018</u>	SIGNED OFF BY: _____ DATE: _____	

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL : AISI 1144 STRESSPROOF STEEL ROUND BAR
SPECIFICATION: ASTM A311 for UNS G11440
PART NUMBER: MT-1144-R [D.DDD]
WHERE "D.DDD" = DIAMETER IN INCHES
EG. 5/8" ROUND BAR = MT-1144-R0.625

REV.	DESCRIPTION	DATE	BY	APPROVED
A	NEW ISSUE	17.08.09	VM	WM

16/7/09.12

DART AEROSPACE		Headquarters, Chicago, Canada	
TITLE AISI 1144 STRESSPROOF STEEL ROUND BAR			
DWG NO.	MT-1144-R	REV	A
DESIGN BY:	VM 8/9/2017	SCALE:	AS SHOWN
CHECKED BY:	VM 08/31/2017	DATE:	08/31/2017
APPROVED BY:	SAC 08/31/2017	DATE:	08/31/2017
DATE:	08/31/2017	SCALE:	NIS WEIGHT 10.0 LBS
1. UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE IN INCHES AND DECIMALS THEREOF.			
2. DIMENSIONAL LIMITS APPLY TO ALL DIMENSIONS.			
3. DIMENSIONAL LIMITS APPLY TO ALL DIMENSIONS.			
COPYRIGHT © 2013 BY DART AEROSPACE LTD.			
THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL. IT IS TO BE KEPT UNDER LOCK AND KEY AND NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM.			

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: MT-4140QT-R1.250
 DATE: FEB 07 2018

PO / BATCH NO. 038946/039966

MATERIAL CERT REC'D: yes
 QUANTITY RECEIVED: 16"
 QUANTITY INSPECTED: 16"
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 1.250
 THICKNESS RECEIVED: 1.250
 SHEET SIZE ORDERED: N/A
 SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y (N)	
CORRECT FINISH	(Y) N	
CORROSION	Y (N)	
CORRECT GRAIN DIRECTION	(Y) N	
CORRECT MATERIAL PER M-DRAWING	(Y) N	<i>Astm A29</i>
CORRECT THICKNESS	(Y) N	
PHOTO REQUIRED	Y (N)	
CORRECT REF # TO LINK CERT	(Y) N	<i>Heat # N#16202066</i>
CORRECT MATERIAL IDENTIFICATION	(Y) N	
CORRECT M# ON THE MATERIAL	(Y) N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y (N)	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y (N)	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK.
 RECORD RESULTS BELOW

	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)	
INSPECTED BY: <u>DAS</u>		SIGNED OFF BY: _____	
DATE: <u>9-8 FEB 07 2018</u>		DATE: _____	

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in:

REV.	DESCRIPTION	ECN #	DATE	BY	APPROVED
A	NEW ISSUE	17-780	17.12.13	VM	ML

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL : AISI 4140 ROUND BAR
MINIMUM ROCKWELL C = 20 Rc
MAXIMUM ROCKWELL C = 38 Rc

SPECIFICATION: ASTM A29, AMS 6349, AMS 6382, AMS 6529

PART NUMBER: MT-4140-R-1D-DDD
WHERE "D,DDD" = DIAMETER IN INCHES
EX. 4" ROUND BAR = MT-4140-R-4.000

 Hamilton, Ontario, Canada	
TITLE AISI 4140 ROUND BAR	
PART NO. MT-4140-R	REV A
TOOL NO. INITIALS AND DATE DESIGNED BY: VM 17/12/13 DRAWN BY: VM 12/12/2017 CHECKED BY: ML 12/12/2017 APPROVED BY: ML 12/20/2017	
DIMENSIONS ARE IN INCHES, UNLESS OTHERWISE SPECIFIED. DIMENSIONS APPLY AFTER FINISHING TOLERANCES: FRACTIONS ± 1/16 DECIMALS ± .005 SURFACE: 3.2 ROUGHNESS: 3.2 SCALE: NTS SHEET 1 OF 1	
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MATERIAL RECEIPT INSPECTION FORM

MATERIAL: MT-1144-R1-250
 DATE: FEB 07 2018

PO / BATCH NO.: 038946/5039967

MATERIAL CERT REC'D: yes
 QUANTITY RECEIVED: 22'
 QUANTITY INSPECTED: 22'
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 1-250
 THICKNESS RECEIVED: 1-250
 SHEET SIZE ORDERED: N/A
 SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <input checked="" type="radio"/> N <input type="radio"/>	
CORRECT FINISH	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORROSION	Y <input checked="" type="radio"/> N <input type="radio"/>	
CORRECT GRAIN DIRECTION	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="radio"/> Y <input type="radio"/> N	<u>Astm A311</u>
CORRECT THICKNESS	<input checked="" type="radio"/> Y <input type="radio"/> N	
PHOTO REQUIRED	Y <input checked="" type="radio"/> N <input type="radio"/>	
CORRECT REF # TO LINK CERT	<input checked="" type="radio"/> Y <input type="radio"/> N	<u>Heat # 015180</u>
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORRECT M# ON THE MATERIAL	<input checked="" type="radio"/> Y <input type="radio"/> N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <input checked="" type="radio"/> N <input type="radio"/>	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <input checked="" type="radio"/> N <input type="radio"/>	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK.
 RECORD RESULTS BELOW

	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)	
INSPECTED BY: <u>DAS 11</u> DATE: <u>9-89 FEB 07 2018</u>	SIGNED OFF BY: _____ DATE: _____		

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in:

REV	DESCRIPTION	DATE	BY	APPROVED
A	NEW ISSUE	17.08.09	VM	VM

SPECIFICATION CONTROL DRAWING

241.07.12

PURCHASE MATERIAL : AISI 1144 STRESSPROOF STEEL ROUND BAR
 SPECIFICATION: ASTM A311 or UNS G11440
 PART NUMBER: MT-1144-R [D.DDD]
 WHERE "D.DDD" = DIAMETER IN INCHES
 EG. 5/8" ROUND BAR = MT-1144-R0.625

 DART AEROSPACE Mississauga, Ontario, Canada	
TITLE AISI 1144 STRESSPROOF STEEL ROUND BAR	
Dwg No. MT-1144-R	REV A
DESIGN BY VM 08/12/2017	CHECKED BY VM 08/12/2017
MFG. APPR. PD 08/31/2017	DATE 8/31/2017
SCALE: NTS WEIGHT: 0.1 LBS	
SHEET 1 OF 1	
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MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M1018R0.375

PO / BATCH NO: 038946/5039965

DATE: FEB 07 2018

MATERIAL CERT REC'D: Yes

THICKNESS ORDERED: 0.375

QUANTITY RECEIVED: 12"

THICKNESS RECEIVED: 0.375

QUANTITY INSPECTED: 12"

SHEET SIZE ORDERED: N/A

QUANTITY REJECTED: 0

SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	(N)	
CORRECT FINISH	(Y)	N	
CORROSION	Y	(N)	
CORRECT GRAIN DIRECTION	(Y)	N	
CORRECT MATERIAL PER M-DRAWING	(Y)	N	<u>Astm A108</u>
CORRECT THICKNESS	(Y)	N	
PHOTO REQUIRED	Y	(N)	
CORRECT REF # TO LINK CERT	(Y)	N	<u>Heat #417766m</u>
CORRECT MATERIAL IDENTIFICATION	(Y)	N	
CORRECT M# ON THE MATERIAL	(Y)	N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	(N)	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	(N)	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)	
INSPECTED BY: <u>DAS</u> <u>11</u> DATE: <u>9-89 FEB 07 2018</u>	SIGNED OFF BY: _____ DATE: _____		

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in.

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: AISI 1018-1025 ROUND BAR
 SPECIFICATION: MIL-S-7097 OR ASTM A108
 PART NUMBER: M1018-R/D DDD WHERE D, DDD = DIAMETER IN INCHES
 DIA.

TOLERANCES:
 EG. 7/8" ROUND BAR = M1018-R0.875
 PER ASTM A108 AS FOLLOWS:

SIZE	TOLERANCE
UP TO 1.5" INCL.	+0.000/-0.002
OVER 1.5" TO 2.5" INCL.	+0.000/-0.003
OVER 2.5" TO 4.0" INCL.	+0.000/-0.004
OVER 4.0" TO 6.0" INCL.	+0.000/-0.005
OVER 6.0" TO 8.0" INCL.	+0.000/-0.006

RECEIVED
 2012-09-24

B	REFORMAT, ADD ASTM A108, ADD TOLERANCES	CP	12.09.05
A	NEW ISSUE	DS	01.06.12
REV.	DESCRIPTION	BY	DATE
DESIGN	DS		
DRAWN	CP		
CHECKED	CP		
MFG. APPR.	M1018-R		
APPROVED	1018-1025 ROUND BAR		
DE APPR.			
DATE	12.09.05		

DART AEROSPACE LTD
 HAWKESBURY, ONTARIO, CANADA
 REV. B
 SHEET 1 OF 1
 SCALE
 NTS
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MATERIAL RECEIPT INSPECTION FORM

MATERIAL: 6061 T6 B0.375x01.250
 DATE: FEB 07 2018

PO BATCH NO: 038946/038949

MATERIAL CERT REQ'D: Yes
 QUANTITY RECEIVED: 20"
 QUANTITY INSPECTED: 20"
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 0.375
 THICKNESS RECEIVED: 0.375
 SHEET SIZE ORDERED: N/A
 SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	<input checked="" type="radio"/> N	
CORRECT FINISH	<input checked="" type="radio"/> Y	N	
CORROSION	Y	<input checked="" type="radio"/> N	
CORRECT GRAIN DIRECTION	<input checked="" type="radio"/> Y	N	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="radio"/> Y	N	<u>Aston B221</u>
CORRECT THICKNESS	<input checked="" type="radio"/> Y	N	
PHOTO REQUIRED	Y	<input checked="" type="radio"/> N	
CORRECT REF # TO LINK CERT	<input checked="" type="radio"/> Y	N	<u>Heat # 201701926</u>
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="radio"/> Y	N	
CORRECT M# ON THE MATERIAL	<input checked="" type="radio"/> Y	N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	<input checked="" type="radio"/> N	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	<input checked="" type="radio"/> N	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK.
 RECORD RESULTS BELOW

	HRC	HRB	DURA	DUR D	WEAR
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if req)	
INSPECTED BY: <u>DAS 11</u> DATE: <u>9-89 FEB 07 2018</u>	SIGNED OFF BY: _____ DATE: _____		

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in.

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR

SPECIFICATION: QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS 4117/4128/4115/4116)
OR QQ-A-200/8 OR AMS-QQ-A-200/8 (OR AMS 4160)
OR ASTM B211 OR ASTM B221

PART NUMBER: M6061T6B | T.TTT | X | WWW.WWW | THICK | WIDTH

WHERE "T.TTT" = THICKNESS IN INCHES
"WWW.WWW" = WIDTH IN INCHES

E.G. 1.0" X 12.0" BAR = M6061T6B1.000X12.000

RELEASED
R 2009-09-03
MD

B	REMOVE QQ-A-250/11 OPTION. REFORMAT NOTES. ADD ASTM B211/B221 (2ND-1)	CP	09 07 13
A	NEW ISSUE	DS	01 06 08
REV	DESCRIPTION	BY	DATE
DESIGN	DS	DART AEROSPACE LTD	
DRAWN	DS	HAWKESBURY, ONTARIO, CANADA	
CHECKED	DS	DRAWING NO.	REV. B
MFG. APPR.	DS	M6061T6B	SHEET 1 OF 1
APPROVED	DS	TITLE	SCALE
DE APPR.	DS	6061-T6 BAR	NTS
DATE	09.07.13	COPYRIGHT © 2001 BY DART AEROSPACE LTD	

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: 4606 H6 RC. 563
 DATE: FEB 07 2018

PO BATCH NO: 088946/8089970

MATERIAL CERT REQ'D: Yes
 QUANTITY RECEIVED: 36"
 QUANTITY INSPECTED: 36"
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 0.563
 THICKNESS RECEIVED: 0.563
 SHEET SIZE ORDERED: N/A
 SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	(N)	
CORRECT FINISH	(Y)	N	
CORROSION	Y	(N)	
CORRECT GRAIN DIRECTION	(Y)	N	
CORRECT MATERIAL PER M-DRAWING	(Y)	N	<u>Astm B271</u>
CORRECT THICKNESS	(Y)	N	
PHOTO REQUIRED	Y	(N)	
CORRECT REF # TO LINK CERT	(Y)	N	<u>Heat # 201714863</u>
CORRECT MATERIAL IDENTIFICATION	(Y)	N	
CORRECT M# ON THE MATERIAL	(Y)	N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	(N)	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	(N)	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK.

RECORD RESULTS BELOW

	HRC	HRB	DUR A	DUR E	WEE
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION

ENGINEERING SIGNOFF (if req)

INSPECTED BY: DAS
11
 DATE: 9-89 **FEB 07 2018**


SIGNED OFF BY: _____
 DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in.

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM ROUND BAR

SPECIFICATION: QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS 4117/4128/4115/4116)
OR QQ-A-200/8 OR AMS-QQ-A-200/8 (OR AMS 4160)
OR ASTM B211 OR ASTM B221

PART NUMBER: M6061T6R1D.DDD | DIA. 

WHERE "D.DDD" = DIAMETER IN INCHES

EG. 5/8" ROUND BAR = M6061T6R0.625

RELEASED
R 2009-09-09
NAD

B	REFORMAT DWG. ADD B211 & B221 SPEC. (ZN D8-1).	CP	09.07.13
A	NEW ISSUE	DS	01.06.08
REV	DESCRIPTION	BY	DATE
DESIGN			
DRAWN			
CHECKED			
MFG. APPR.			
APPROVED			
DE APPR.			
DATE	09.07.13		
DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA		REV. B	
DRAWING NO. M6061T6R		SHEET 1 OF 1	
TITLE 6061-T6 ROUND BAR		SCALE NTS	
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MATERIAL RECEIPT INSPECTION FORM

MATERIAL: MT-4140QT-RL500
 DATE: FEB 07 2018

PO BATCH NO: 038946/5039971

MATERIAL CERT REQ'D: Yes
 QUANTITY RECEIVED: 23"
 QUANTITY INSPECTED: 23"
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 1.500
 THICKNESS RECEIVED: 1.500
 SHEET SIZE ORDERED: N/A
 SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	(N)	
CORRECT FINISH	(Y)	N	
CORROSION	Y	(N)	
CORRECT GRAIN DIRECTION	(Y)	N	
CORRECT MATERIAL PER M-DRAWING	(Y)	N	
CORRECT THICKNESS	(Y)	N	
PHOTO REQUIRED	Y	(N)	
CORRECT REF # TO LINK CERT	(Y)	N	Heat # <u>015180-75069193 A162392</u>
CORRECT MATERIAL IDENTIFICATION	(Y)	N	
CORRECT M# ON THE MATERIAL	(Y)	N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	(N)	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	(N)	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK.
 RECORD RESULTS BELOW

	HRC	HRB	DUR A	DUR E	WEAR
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION

ENGINEERING SIGNOFF (if req)

INSPECTED BY: DAS 11
9-89
 DATE: FEB 07 2018

SIGNED OFF BY: _____
 DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

REV.	DESCRIPTION	ECN #	DATE	BY	APPROVED
A	NEW ISSUE	17-780	17.12.13	VM	ML

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL : AISI 4140 ROUND BAR
 MINIMUM ROCKWELL C = 20 Rc
 MAXIMUM ROCKWELL C = 38 Rc
 SPECIFICATION: ASTM A29, AMS 6349, AMS 6382, AMS 6529
 PART NUMBER: MT-4140-R-ID,DDD
 WHERE "D,DDD" = DIAMETER IN INCHES
 EX. 4" ROUND BAR = MT-4140-R-4.000

 DART AEROSPACE Hamilton, Ontario, Canada	
TITLE AISI 4140 ROUND BAR	
PART NO. MT-4140-R	REV A
TOOL NO. INITIALS AND DATE DESIGNED BY: VM 17/12/13 DRAWN BY: VM 17/12/13 CHECKED BY: ML 12/18/2017 INFO REVIEW BY: DP 12/20/2017 APPROVED BY: ML 12/20/2017	
TOLERANCES: FRACTIONS & 1/8 SURFACE 1.5 ROUNDNESS SCALE: NTS SHEET 1 OF 1	

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ACIER QUELLETTE INC.
935, Bouill. du Hâvre
Salaberry de Valleyfield (Québec) J6S 5L1
Tél.: 450-377-4248 MB: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 MB: 514-336-4246 Ext.: 866-456-4242

Invoice

FC00074727

Sold to

DART AEROSPACE LTD
1270, ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Customer N°

CL0001056

Date

2018/02/07

Your order N°

P0038946

Processed by

France

Salesman

STEPHANIE

Shipped to

QUELLETTE VALLEYFIELD

Carrier

Net 30 Days

Credit Term

CO00072715

Order N°

Page

1

Att : Facturation

Product N° and description	Weight	Qty	U/M	Qty	U/M	Price	Pos Nb	Price	Amount
ROUND CR 3/8 1018 RANDOM RCR-38-V 5337 1 X 12' R/L HEAT: 41776GM	4.51	12.00	PI_ \$CLB	12.00	PI	0.50	0.00	0.000	5.95
ROUND 4140 HEAT TREAT 1 1/4 RANDOM R4140-114H-V 4897 1 X 16' DC HEAT: NF16202066	66.75	16.00	PI_ \$CLB	16.00	PI	7.09	0.00	0.000	113.45
ROUND STRESSPROOF 1 1/4 RANDOM RST-114-V 5790 1 X 20' R/L HEAT: 015180	83.40	20.00	PI_ \$CLB	20.00	PI	7.71	0.00	0.000	154.25
ROUND STRESSPROOF 1 3/8 RANDOM RST-138-V 5801 1 X 12' DC 1 X 4' DC HEAT: 14013Y	80.80	16.00	PI_ \$CLB	16.00	PI	8.68	0.00	0.000	138.94
FLAT ALU 3/8 X 1 1/4 6061-T6 RANDOM FAL-38114-V 2609 1 X 20' HEAT: 201701926	11.02	20.00	PI_ \$CLB	20.00	PI	1.85	0.00	0.000	37.02
ROUND ALU 9/16 6061-T6 RANDOM RAL-916-V 5180 3 X 12' HEAT: 201714863	10.54	36.00	PI_ \$CLB	36.00	PI	1.09	0.00	0.000	39.23
ROUND 4140 HEAT TREAT 1 1/2 RANDOM R4140-112H-V 4893 1 X 23'4" HEAT: A162392	140.16	23.33	PI_ \$CLB	23.33	PI	9.01	0.00	0.000	210.18
SURCHARGE ENERGETIQUE FRAIS_ENERGETIQU	0.00	\$							3.95



Hammond IN 46327-1799

CERTIFICATION

CERTIFICATE Rev 3
H174279
DATE 10/14/16
PAGE 7

PURCHASE ORDER B96752

ORDER 915827-1

CUSTOMER ITEM V012142 ITEM 141500240Q04A

SHAPE Round

SIZE MM 38,1000 MM

LENGTH MM 6096 / 7315.2

[illegible]

HEAT		GRAIN PRACTICE		SOURCE / MELTED										CAST		REDUCTION RATIO		GI	
A182392		FINE(6-9)		STEEL DYNAMICS (USA)										BLOOM		79:2:1		5.86	
C		MN	P	S	SI	NI	CR	MO	CU	AL	V								
0.420	0.900	0.013	0.015	0.240	0.120	0.980	0.200	0.250	0.030	0.003									
N		TE	AS	PS	SE	SI	B	0.005	N/A		N/A								
.008	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A											
MECHANICAL														N/A					
JOB		TENSILE		2% YIELD		E LONG		K OF A		HARDNESS		0.0% YIELD		SR TEMP					
HS43559		149,434 PSI		133,398 PSI		17.40		53.10		HBN = 302		128.646							
TENSILE STRENGTH & TEMPER																			
JOB		MACRO		SURFACE		AUTEMPERIZED		TEMPERED		TEMPERATURE		TIME		STRESS					
HS43559		SATISFACTORY		HBN = 311		TEMPERATURE		TEMPERATURE		1100F		4.5 HRS		STRESS FREE					
01		02		03		04		05		06		07		08					
57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57				
LOT		JOB		WEIGHT (LBS)		PIECES		LOT		JOB		WEIGHT (LBS)		PIECES					
6239867		HS43569		6.100		38		6240385		HS43569		4.700		35					
6240428		HS43569		3.772		28		6240480		HS43569		4.070		30					

WE, hereby certify that these goods were produced in compliance with all applicable requirements of sections 6, 7, and 12 of the Fair Labor Standards Act, as amended, and all regulations and orders of the United States Department of Labor issued under section 14 thereof. Material was not exposed to mercury or any metal alloy that is liquid at ambient temperature during processing or while in our possession. No weld repairs performed on the above material.

CERTIFICATE OF TEST

By:

Walter P. Kretzler - Director of Q.A./Chief Metallurgist



ACIER OUELLETTE INC.

935, Bout. du Hiver
Salaberry de Valleyfield (Québec) J6S 5L1
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Invoice

FC00074727

Sold to

DAKT AEROSPACE LTD
1270, ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Customer N°

CL10001056

Date

2018/02/07

Your order N°

PO038946

Processed by

France

Salesman

STEPHANIE

Carrier

OUELLETTE VALLEYFIELD

Credit Term

Net 30 Days

Order N°

CO00072715

Page

2

Att : Facturation

Product N° and description	Weight	Qty	U/M	Qty	U/M	Price	Pcs Nb	Price	Amount
NOTE :									

Conditions : Total Weight (Lbs) : 397.19

All sold and delivered materials remain the property of "Acier Ouellette Inc." until payment is made in full, complete and cashed. All lost materials are at the buyer's expense. The warranty offered by "Acier Ouellette Inc." is the same as offered and honored by the manufacturer and his warranty is transferred by "Acier Ouellette Inc." to the client. The buyer hereby accepts to respect the following conditions: Not 30 days from the date of the order and the buyer accepts to pay administration charges of 2% per month (25% per annum) on all past due amounts due 30 days. Any default in respect to this contract will lead to payment by acceleration and permits to the seller, at his choice to claim for the balance due or the repossession of the goods sold. All claims must be made within 15 days with this document enclosed. Any merchandise that has been damaged, cut or modified cannot be returned. All goods returned must be with our authorization and are subject to a 25% resending charge.

702.97

Subtotal

TPS/GST : 829 670 774 RT0001

91.39

HST

794.36

Total (\$CAD)

794.36

Solde (\$CAD)

Union Drawn Steel II LP

1350 Burlington Street East, P.O. Box 98
Hamilton, Ontario, Canada L8N 3A2
Phone: (905) 547-4480; Fax: (905) 544-3852
1-800-263-9966

CERTIFICATE OF ANALYSIS CERTIFICAT D'ANALYSE

DATE 12/08/16 CUSTOMER ORDER NO. B 97262 MILL ORDER NO. 256257-00
NO. DE LA COMMANDE DU CLIENT NO. DE LA MISE
PRODUCT DESCRIPTION BILL OF LADING
PRODUIT DESCRIPTION BON DE CONNAISSANCE

L 90 FE17329343 YOUR ITEM # : V720302

1-1/4 RD 1144 20/22 FT

"CENTURY"

COLD FINISHED STEEL BARS CARBON
COLD DRAWN & STRESS RELIEF ANNEALED
STANDARD AISI TOLERANCES
C .40/.48 MN 1.35/1.65 P .040MAX S .24/.33
TRANSPORT BY TRUCK - PROTECT WITH TARP
CHEMICAL & MECHANICAL TEST REPORT REQUIRED
ASTM A311 CLASS B
ASTM A108
FINE GRAIN

COUNTRY OF ORIGIN - CANADA
HOT ROLL SOURCE : HAMILTON SPECIALTY BAR
NAFTA CERTIFIED YES: X NO:

LADLE ANALYSIS/ANALYSE DE LA COUILLER A COULER

HEAT NUMBER 015180

C.	.420	MN.	1.480	P.	.011	S.	.267
SI.	.200	CU.	.170	NI.	.110	CR.	.130
CB.		V.		MO.	.042	PB.	
B.		AL.		SN.			

MECHANICAL PROPERTIES/PROPRIÉTÉS MÉCANIQUES

HEAT NUMBER 015180

YIELD STRENGTH 122000 P.S.I. @ .2% OFFSET
LIMIT D'ÉLASTICITÉ
TENSILE STRENGTH 132000 P.S.I.
RÉSISTANCE À LA TRACTION

ELONGATION (2 INCHES)
ALLONGEMENT 9.000 %

REDUCTION OF AREA
STRICITION 26.000 %

HARDNESS
DURETE 255 HB

☐ MAG
TEST

☒ ROTO
TEST

☐ ULTRA
SONIC TEST

NO WELDING OR WELD REPAIR PERFORMED ON THIS MATERIAL.
THIS MATERIAL WAS NOT EXPOSED TO MERCURY DURING
PROCESSING OR WHILE IN OUR POSSESSION.

WE HEREBY CERTIFY THAT THE MATERIAL DESCRIBED HAS BEEN TESTED IN ACCORD
WITH SPECIFICATION, AND THAT THE RESULTS ARE CORRECT AS CONTAINED IN
RECORDS OF THE COMPANY.

PAR LES PRÉSENTES NOUS CERTIFIONS QUE LA MATIÈRE DÉCRITE A ÉTÉ
CONFORMÉMENT AUX SPÉCIFICATIONS ET QUE LES RÉSULTATS SONT CORRECTS, C
INDIQUÉ DANS LES REGISTRES DE LA COMPAGNIE.

PER/PAR



**NIAGARA
LASALLE**
CORPORATION

1412 150th Street
Hammond IN 46327-1799

CERTIFICATION

CERTIFICATE	Rev
H168610	2
DATE	01/20/18
PAGE	1

PURCHASE ORDER B93364

ORDER 889675-1

CUSTOMER ITEM V715431

ITEM 111375132SP4

GRADE STRESSPROOF(R)

SHAPE Round

SIZE 1.3750

SIZE MM 34.9250 MM

LENGTH 11' 0" / 12' 6"

LENGTH MM 3352.8 / 3810

STRESSPROOF(R) Spec/Rev: Spec/Rev: ASTM A108-13 Spec/Rev: ASTM A29/A29M-12e1 Spec/Rev: ASTM A311-04(2010) CLASS B

HEAT		GRAIN PRACTICE		SOURCE / MELTED			CAST		REDUCTION RATIO		DI
J4013Y		COARSE		TATA - Rotherham - SM (UK)			BLOOM		28.1:1		
C	MN	P	S	SI	NI	CR	MO	CU	AL	V	
0.470	1.540	.011	.250	0.200	0.070	0.110	.020	.120	.001	N/A	
N	TE	AS	PS	SE	BI	B	MS				
.011	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
JOB	TENSILE	2% YIELD	ELONG	R OF A	HARDNESS	22% YIELD	SR TEMP				
HS41268	129,335 PSI	101,610 PSI	10.50	26.20	HBN = 262						
LOT	JOB	WEIGHT (LBS)	PIECES		LOT	JOB	WEIGHT (LBS)	PIECES			
4980281	HS41268	0.030	100		5084315	HS41268	1.900	33			

WE, hereby certify that these goods were produced in compliance with all applicable requirements of sections 6, 7, and 12 of the Fair Labor Standards Act, as amended, and all regulations and orders of the United States Department of Labor issued under section 14 thereof. Material was not exposed to mercury or any metal alloy that is liquid at ambient temperature during processing or while in our possession. No weld repairs performed on the above material.

CERTIFICATE OF TEST

By: *Walter P. Kretzler*

Walter P. Kretzler - Director of Q.A./Chief Metallurgist

Eaton Steel Bar Company Inspection Certificate 1682448

EN 10204:2004-3.1

Customer	BOL	Ship Date	Customer PO	Item	Customer Item	Item Description
	221248	21-Nov-2017	B38384	11132 rev 004	V122432	1-3/4 HR RD 4140/42MM 24H SBO Q79F FG N8T

All bundles listed below were produced using steel from Heat 75069189 issued by GERDAU-MONROE and were completed from Eaton Steel Job 826531.

Chemistry	Description	Value	Units	Mechanical	Description	Value	Units
C	Carbon	0.40000	PMOT	TENSILE PSI	Tensile Strength in PSI Units	141000	PSI
Mn	Manganese	0.66000	PMOT	YIELD PSI	Yield Strength in PSI Units	123300	PSI
P	Phosphorus	0.01300	PMOT	ELONGATION	Percent Elongation	21.00	PCT
S	Sulfur	0.02100	PMOT	REDUCTION	Percent Reduction in Area	61.0	PCT
Si	Silicon	0.24000	PMOT	BRINELL SURF	Brinell Surface	297.0	BRN
Ni	Nickel	0.19000	PMOT	Heat Treating	Description	Value	Units
Cr	Chromium	0.38000	PMOT	TEMPER TEMP F	Temper Temp in Fahrenheit	500 - 2500	DEGP
Mo	Molybdenum	0.16000	PMOT	AUSTEN TEMP F	Austenitizing Temp in Fahrenheit	1600 - 1700	DEGP
Al	Aluminum	0.02000	PMOT	BR TEMP F	Breast Relief Temp in Fahrenheit	500 - 2500	DEGP
Cu	Copper	0.22000	PMOT	MAGNETISM-NT	Magnetism in Gauss	0 - 20	GAU
V	Vanadium	0.00300	PMOT	TIME AT TEMP	Time at Temperature	Report	
Co	Cobaltium	0.00300	PMOT	QUENCH MEDIA	Quench Media Requirements	PAN/O	
N	Nitrogen	0.00000	PMOT	STRESS FREE	Coat stress free	CERTIFIED	
P+S	Element Sum Limit	0.03000	PMOT	HT4140-420F	Quench & Temper	CONFORMS	
DI	Ideal Diameter	5.22000	IN	Mill Processing	Description	Value	Units
Clearliness	Description	Value	Units	ROLL COUNTRY	Milled in Country	USA	
Macro Etch	Report macro etch results.	Value	Units	ROLL COUNTRY	Milled in Country	USA	
Geometry	Description	Value	Units	RED RATIO	Reduction Ratio	28.30	RED
Diameter	Diameter	1.7334 - 1.7656	IN	ASTM Standard	Description	Value	Units
Geometry	Description	Value	Units	A193/193M-01	Grade B7	CONFORMS	
01	1/16 inch from Quenched End	56	HRC	A434-90A-BC	ASTM A434-90A-BC Tensile and Yield Properties	CONFORMS	
02	2/16 inch from Quenched End	56	HRC	Structure	Percent Tempered Martensite	80 - 100	PCT
03	3/16 inch from Quenched End	56	HRC	PERCENT TM	Reported Microstructure	Q10	
04	4/16 inch from Quenched End	56	HRC	MICROSTRUCTURE	Q10		
05	5/16 inch from Quenched End	56	HRC	Tag Number	Q10		
06	6/16 inch from Quenched End	56	HRC	022-2144708	Q10		
07	7/16 inch from Quenched End	55	HRC				
08	8/16 inch from Quenched End	54	HRC				
09	9/16 inch from Quenched End	53	HRC				
10	10/16 inch from Quenched End	51	HRC				
11	11/16 inch from Quenched End	50	HRC				
12	12/16 inch from Quenched End	49	HRC				
13	13/16 inch from Quenched End	47	HRC				
14	14/16 inch from Quenched End	45	HRC				
15	15/16 inch from Quenched End	44	HRC				
16	16/16 inch from Quenched End	43	HRC				
17	17/16 inch from Quenched End	43	HRC				
18	18/16 inch from Quenched End	41	HRC				
19	19/16 inch from Quenched End	39	HRC				
20	20/16 inch from Quenched End	37	HRC				

Bunch tags with Eaton Steel identifiers reference the size grade, heat, purchase order number, where applicable, part number, product description and quantity. Material produced in accordance with Eaton Steel's Quality Manual QM-00002 Rev.0 dated 11/2/2013.

We hereby certify the above to be in conformance, and a true copy of data represented in company records. This steel was not subject to weld repair or exposed to mercury while in the possession of Eaton Steel.

Created on 21-Nov-2017
 Thomas Snipes, Corporate Metallurgist
 10221 Capital Avenue, Oak Park, MI 48237 USA
 http://www.eatonsteel.com
 Tel: 248-398-3434
 Fax: 248-398-1434



CREDITED MATERIAL TEST REPORT					
CYCLING ORIGIN NUMBER	STRESSING RATE PROFILE	TEST NUMBER	SIGNATURE	DATE	
266576	10902-4140-42M	75069193	Q14676 101	01/18/97	

OAK PARK , MI 48237

OAK PARK , MI 48237

ORDERED

2004

24' 2"

SPECIFICATION 10902 REVISION 6, 12/12/13, A304-16, A322-13
 SPECIFIC IDENTIFICATION

CHEMICAL ANALYSIS

C	Mn	P	S	B _i	N _i	Cr	Mo	Cu	Sn	Al
0.46	0.86	0.013	0.021	0.24	0.79	0.98	0.16	0.22	0.009	0.020
V	K ₂									
0.003	0.003									

GRAIN SIZE	SPECIFICATION ASTM A112	FINE GRAIN 5-B
10	10	10
20	20	20
30	30	30
40	40	40
50	50	50
60	60	60
70	70	70
80	80	80
90	90	90
100	100	100
110	110	110
120	120	120
130	130	130
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HARDENABILITY SPECIFICATION ASTM A255/A304

THEORETICAL

DI CALCULATION SPECIFICATION CAT 1B0024

5.22

REDUCTION RATIO SPECIFICATION 1734 10902

RATIO= 28.3 TO 1.0

पञ्चमः ॥

Mr. and Mrs. Paul Doyle, 1000 East Second Street, New York 10, N.Y.

CONTINUED ON PAGE 2



GERDAU SPECIAL STEEL NORTH AMERICA
5711 WESTLICK ROAD
MILWAUKEE, WISCONSIN 53213

CERTIFIED MATERIAL TEST REPORT				
164576	10902/4140/4204	75069292	214676 101	10/19/17

ORDER BY
PATRICK GRAYTON
EATON STEEL CORPORATION
10231 CAPITAL

OAK PARK, MI 48237

SHIP TO
EATON STEEL CORPORATION
C/O APOLLO HEAT TREAT
10600 CAPITAL STREET
OAK PARK, MI 48237

ORDER NO.			
4140	1	3/4"	24" 2"

SPECIFICATION 10902 REVISION 5, 12/12/13, 2304-15, 2322-13

RESIDUAL MAX SPECIFICATION ITEM 10902

P+S = 0.0340

RESIDUAL MIN SPECIFICATION ITEM 10902

P+S = 0.0340

MELTED/ROLLED & GERDAU MONROE; SHEETS SAE J422 S5/05 RATING
(WONST FIELD) / ASTM A381 MACRO STEEL SATISFACTORY, 61/61/61, ASTM A29/A29M-15
** MATERIAL 100% MELTED AND MANUFACTURED IN THE U.S.A., BY THE ELECTRIC
ARC FURNACE AND CONTINUOUS CASTING METHOD. THE PRODUCT HAS NOT
BEEN REPAIRED BY WELDING AND THIS MATERIAL HAS NOT BEEN EXPOSED
TO MERCURY OR TO ANY OTHER KETAL ALLOY THAT IS LIQUID AT AMBIENT
TEMPERATURES DURING PROCESSING OR WHILE IN OUR POSSESSION.
GERDAU MONITORS ALL INCOMING SCRAP AND ALL HEATS OF STEEL TO ENSURE THAT
PRODUCTS SHIPPED ARE FREE OF RADIOACTIVE MATERIAL.

PAGE 2 OF 2
We certify that these data were collected and in compliance with specified requirements.
GERDAU MONROE
3000 EASTERN AVE
MONROE, LA 70646
10/19/17
Patrick Grayton
Patrick Grayton



Heat Treating & Processing Company, L.L.C.

30400 CAPITAL AVENUE • COT. PARK, MICHIGAN 49737 • (248) 398-4434

CERTIFICATION OF HEAT TREATMENT

Date: 11 / 14 / 2017
Certification Number: 17 - 0803
Customer Order Number: 826531
Part Number: 10502 - 11132
Heat Number: 75068193
Heat Treat Job Number: 3088

Material: 4140
Quantity: 334 Pcs.
Weight: 64,388 Lbs.
Description: 1.7500" Diameter x 24" 3" length
Part Specification: ESHR HT4340-43QT

	Temperature	Time at Heat	Coolant
Normalized	N/A		
Preheat	N/A		
Autochamber/Heated	1550 °F	45 minutes	
Soak/Quenched	1030 °F - 1014 °F	N/A	Water
Temper	1220 °F	1 Hour 15 minutes	Air Cooled to Ambient
Temper?	N/A		

Method of heat treat monitor, set point thermocouple (Type K), Equipment calibrated per AMS2750K.
We hereby certify the above material has been treated in the manner described and correct as
contained in the records of Apollo Heat Treating and Processing, L.L.C.


Randy L. Celi
Plant Manager
Apollo Heat Treating & Processing, L.L.C.